|          |             |                          |           |                   |                |           |             |               |                |                       |          |                      |  |          | 10/790,497 |           |            |                   |                 |                       |               |               |               |          | YAMAGUCHI, SATOSHI |            |                   |          |              |               |               |           |           |           |     |   |   |
|----------|-------------|--------------------------|-----------|-------------------|----------------|-----------|-------------|---------------|----------------|-----------------------|----------|----------------------|--|----------|------------|-----------|------------|-------------------|-----------------|-----------------------|---------------|---------------|---------------|----------|--------------------|------------|-------------------|----------|--------------|---------------|---------------|-----------|-----------|-----------|-----|---|---|
|          |             |                          |           |                   |                |           |             |               |                |                       |          | E                    | Examiner   |          |            |           |            |                   |                 |                       |               |               | Art Unit      |          |                    |            |                   |          |              |               |               |           |           |           |     |   |   |
|          |             |                          |           |                   |                |           |             |               |                | 1111                  |          |                      |  | •        | _          |           | Α          | A. Dexter Tugbang |                 |                       |               |               |               |          |                    |            |                   | 372      |              |               |               | $\perp$   |           | · ·       |     | _ |   |
|          |             |                          | 1         | R                 | ejec           | <br>cte   | d           |               | .[             |                       |          | (TI                  | hrou   | ıgh n    | חטו        | ner       | al)        |                   |                 | N                     | Non-Elected   |               |               |          |                    | A          |                   | Appeal   |              |               |               |           |           |           |     |   |   |
|          |             |                          | =         | -                 | Allowed        |           |             |               |                | +                     | -        | Cancelled Restricted |  |          |            |           |            |                   |                 |                       | Interference  |               |               |          |                    | 0          | Objected          |          |              |               |               |           |           |           |     |   |   |
|          |             |                          |           |                   |                |           |             |               | <br>           | <u> </u>              | _        |                      |  |          |            |           |            |                   |                 | Ш                     |               |               |               |          |                    |            |                   |          | ٢            |               |               | •         |           |           |     |   |   |
| F        | Clain       |                          | F         | $\overline{}$     | Dat            |           |             | $\overline{}$ | $\overline{}$  | $\overline{}$         | 日        | Claim                |  |          |            |           | Date       | -                 | $\overline{}$   | $\overline{}$         | $\exists$     | ŀ             | Cla           | aim<br>I | F                  | Date       |                   |          |              | $\overline{}$ | $\overline{}$ | 긕         | i         |           |     |   |   |
| 1        | Final       | ig                       | 8         | 8                 | 11             |           |             |               |                |                       |          |                      | Finat  | Original |            |           | '          |                   |                 |                       |               | .             |               | 1        | Final              | Original   |                   |          | -            |               |               | ŀ         | 1         | -         | i   |   |   |
| L        | -c          |                          | 10/26/06  | ш                 | Ц              |           |             |               |                |                       | Ц        |                      | 正  | 1        |            |           | L          |                   |                 | Ľ                     |               |               |               |          | ij                 |            |                   |          |              |               |               |           |           |           |     |   |   |
| F        |             | 깆                        | ÷         | 3                 | 一              | $\exists$ | $\exists$   | $\exists$     | $\Box$         |                       | $\Box$   |                      |  | 51<br>52 |            |           | Γ.         |                   |                 | П                     | $\dashv$      | $\dashv$      | $\exists$     | F        |                    | 101        | $\Box$            |          | T            | $\Box$        | 口             | $\exists$ | 7         | $\exists$ | i   |   |   |
| -        | _           | 2 3                      | ÷         | ╎                 | ┍╅             | ᅱ         | $\dashv$    | -             | $\vdash$       | $\vdash$              | Н        |                      | $\vdash \vdash \vdash$                           | 53       | $\vdash$   | $\vdash$  | $\vdash$   | $\vdash$          | H               | H                     | _             | $\dashv$      | $\dashv$      | ŀ        |                    | 102        | $\vdash \vdash$   | +        | 十            | ┦             | $\vdash$      | $\dashv$  | +         | ㅓ         | i   |   |   |
| E        |             | 4                        | •         | 7                 | 寸              | J         | J           | 1             |                |                       |          | 1                    |  | 54       |            |           |            |                   | H               | 一                     | 寸             |               | J             | t        |                    | 104        |                   |          | 1_           | H             | 口             | 1         | 士         | $\exists$ | i   |   |   |
|          | _           | 5                        |           | Ň                 | $\Box$         | $\Box$    | $\sqsupset$ | $\Box$        |                | $\Box$                | 口        |                      |  | 55       |            |           |            |                   |                 | 口                     | $\Box$        | $\Box$        | 二             | Ţ        |                    | 105        |                   | 工        | 工            |               | 口             | 口         | コ         | $\Box$    | İ   |   |   |
| ⊢        | <del></del> | 6                        |           | N                 | $\vdash$       | ᅱ         | $\dashv$    | $\dashv$      | Н              | Ш                     | Н        |                      | <b> </b>   | 56       | $\vdash$   | $\vdash$  | ₽          | ሥ                 | $\sqcup$        | $\vdash$              | H             | _             | $\mathcal{A}$ | ŀ        | -                  | 106        | ₩                 | +        | ╄            | $\sqcup$      | $\vdash$      | -+        | $\dashv$  | 4         | i   | - |   |
| $\vdash$ |             | 짉                        | 1         | 22                | 一十             | $\dashv$  | $\neg$      | -             | $\overline{}$  | Н                     | H        | 1                    |  | 57<br>58 | ┝┤         | H         |            | $\vdash$          | $\vdash$        | $\mapsto$             | $\vdash$      | $\rightarrow$ | $\dashv$      | ŀ        | $\dashv$           | 107<br>108 | ₩                 | +        | 十            | ┦             | H             | $\dashv$  | 十         | $\dashv$  | i   |   |   |
|          |             | <u>a</u>                 |           | N                 | 一              | 寸         | $\exists$   | 1             |                |                       |          | 1                    |  | 59       |            | $\vdash$  | 1          |                   | Н               | 団                     | 寸             | $\exists$     | $\exists$     | t        |                    | 109        | H                 | +        | +            | +             |               | $\exists$ | 士         | 7         | i   |   |   |
|          |             | 10                       | ٠         | N                 | $\Box$         | $\Box$    | $\Box$      |               | $\Box$         | $\Box$                | 口        |                      |  | 60       |            |           |            |                   |                 | $\Box$                | $\Box$        | $\Box$        | $\Box$        | Ţ        |                    | 110        | П                 | 工        | 工            | $\Box$        | $\Box$        | $\Box$    | 耳         | $\Box$    | i   |   |   |
| ⊢        |             | ![                       |           | N                 | -              | 4         | _           | $\dashv$      | $\square$      | $\sqcup$              | Ш        |                      | <u> </u>   | 61       | $\sqcup$   | ሥ         | <u> </u>   | $\square$         |                 | Ш                     | $\dashv$      | _             | $\mathbf{H}$  | ŀ        |                    | 111        | -                 |          | 1            | $\sqcup$      | 1             | 4         | 4         | 4         | i   |   |   |
| H        |             | 1 <u>2</u><br>1 <u>B</u> |           | N                 | $\vdash$       | $\dashv$  | $\dashv$    | $\dashv$      |                | $\vdash$              | H        | -                    | <b> </b>   | 83<br>83 | $\vdash$   | ሥ         | ⊬          | $\vdash$          | $\vdash$        | H                     | _             | $\dashv$      | H             | ŀ        | $\dashv$           | 112<br>113 | ⊣                 | +        | +            | ╀┦            | H             | 4         | +         | $\dashv$  | i   |   |   |
| $\vdash$ | _           |                          | H         | N                 | $\vdash$       | $\dashv$  | -           | 7             | $\vdash$       | -1                    | H        | 1                    |  | 64       | $\vdash$   | $\vdash$  | 一          | $\vdash$          | H               | $\vdash$              | 一十            | _             | $\dashv$      | H        | -                  | 114        | $\vdash$          | ┰        | 十            | Н             | $\vdash$      | $\dashv$  | +         | $\dashv$  | ĺ   |   |   |
| $\vdash$ |             | <b>(5)</b>               |           | N                 | 一              | 7         | 7           | 7             |                | $\Box$                | $\sqcap$ | Ì                    |  | 65       | $\vdash$   | $\vdash$  | $\vdash$   | 1                 | $\vdash$        | $\vdash$              | $\dashv$      | 7             | $\exists$     | l        |                    | 115        | $\vdash \uparrow$ | 十        | +            | Н             | $\vdash$      | _         | 十         | $\dashv$  | ĺ   | • |   |
|          |             | 1                        | •         | N                 |                | J         | $\Box$      | $\Box$        |                |                       |          | ſ                    |  | 66       |            |           |            |                   |                 |                       |               | $\Box$        |               | Į.       |                    | 116        |                   | $\perp$  | I            |               | $\Box$        | $\Box$    | 丁         | $\Box$    | i   |   |   |
| F        |             | 1]                       |           | N                 | $\Box$         | $\Box$    | $\Box$      | $\Box$        | $\square$      | $\square$             | П        | -                    | $\square$  | 67       |            | $\Box$    | $\square'$ |                   |                 | П                     | 口             | $\Box$        | $\Box$        | ŀ        |                    | 117        | П                 | 工        | Ţ            | $\Box$        | $\Box$        | $\Box$    | コ         | $\exists$ | i   |   |   |
| $\vdash$ | _           | 18                       | H         | ×                 | $\vdash$       | $\dashv$  | 4           | $\dashv$      | H              | $\vdash$              | H        | - 1                  | <b> </b> -                                       | 88       | $\vdash$   | $\vdash$  | ሥ          | $\vdash$          | $\vdash\vdash$  | H                     | ,             | $\dashv$      | $\dashv$      | . }      | $\dashv$           | 118<br>119 | ⊣                 | +        | +            | ₩             | $\vdash$      | $\dashv$  | +         | $\dashv$  | i   |   |   |
| H        |             | 19<br>20                 | $\vdash$  | H                 | $\dashv$       | +         | _           | _             | $\dashv$       | Н                     | H        | 1                    | $\vdash\vdash$                                   | 70       |            | ⊦-        | $\vdash$   | $\vdash$          | H               | $\vdash$              | ┌─┤           | $\rightarrow$ | $\dashv$      | ŀ        |                    | 120        | $\vdash$          | +        | +            | $\vdash$      | H             | $\dashv$  | +         | $\dashv$  | i   |   |   |
|          |             | 21                       | $\vdash$  | $\vdash$          | 一              | 7         | $\dashv$    | _             | $\sqcap$       | $\vdash$              | $\sqcap$ | 1                    | _  | 71       | $\vdash$   | $\vdash$  | Н          | H                 | Н               | $\sqcap$              | $\sqcap$      | $\dashv$      | $\neg$        | ŀ        |                    | 121        | ++                | 十        | +            | H             | $\vdash$      | 1         | +         | $\dashv$  | i   |   |   |
| ·E       | 2           | 22                       |           |                   | $\Box$         | J         | J           | $\Box$        |                |                       |          |                      |  | 72       | $\Box$     |           |            |                   |                 |                       | $\Box$        | $\Box$        |               |          |                    | 122        |                   | 工        | 工            |               | $\Box$        | $\Box$    | 工         |           | i . |   |   |
| L        |             | 23                       |           |                   | $\Box$         | $\exists$ | $\beth$     | $\Box$        |                |                       | $\Box$   |                      |  | 73       |            |           |            |                   |                 | $\Box$                | $\Box$        |               |               | 1        |                    | 123        | $\Box$            | 1        | Ţ.           | $\Box$        | $\Box$        | $\exists$ | $\exists$ | $\exists$ | i   |   |   |
| $\vdash$ |             | 24<br>25                 | $\vdash$  | $\vdash$          | $\vdash$       | $\dashv$  | $\dashv$    | $\dashv$      | Н              | $\boldsymbol{\sqcup}$ | Н        |                      | <b> </b>   | 74<br>75 | $\vdash$   | $\vdash$  | ሥ          | $\vdash$          | $\vdash$        | H                     |               |               | $\dashv$      | -        |                    | 124<br>125 | ₩                 | +        | +            | ┦             | ┵             | -+        | +         | $\dashv$  | i   | • |   |
| H        |             | 25<br>26                 | $\vdash$  | $\vdash$          | $\vdash$       | $\dashv$  | $\dashv$    | $\dashv$      | $\vdash$       | $\vdash$              | Н        |                      |  | 76       | $\vdash$   | H         | ⊬          | $\vdash$          | $\vdash$        | $\vdash \vdash$       | $\overline{}$ | _             | $\dashv$      | H        |                    | 125        | ╁                 | +        | +            | ╀┦            | 一十            | $\dashv$  | 十         | $\dashv$  | i   |   |   |
| F        |             | 27                       | М         | 1                 | $\sqcap$       | 7         | 7           | $\dashv$      | $\vdash$       |                       | $\sqcap$ | 1                    | $\square$  | 77       | H          | H         | Н          | H                 | $\vdash$        | $\vdash$              | $\dashv$      | $\dashv$      | $\dashv$      | ı        | $\neg$             | 127        | $\vdash$ †        | +        | +            | H             | $\sqcap$      | $\dashv$  | 十         | $\dashv$  | i   |   |   |
|          | 2           | 28                       |           |                   | 口              | J         |             | J             |                |                       |          |                      |  | 78       |            |           | 匚          |                   |                 |                       |               | J             |               | Ţ        |                    | 128        |                   | ユ        | 工            |               | 口             | コ         | $\Box$    | J         | I   |   |   |
| L        |             | 29                       | $\square$ |                   | 耳              |           | $\Box$      | $\Box$        |                |                       | 口        |                      |  | 79       | $\Box$     |           |            |                   |                 | $\Box$                |               |               | $\Box$        | Ļ        |                    | 129        | П                 | 7        | L            |               | $\Box$        | $\Box$    | $\Box$    | コ         | i . |   |   |
| $\vdash$ |             | 30                       | $\vdash$  | $\vdash$          | $\vdash$       | 4         |             |               | $\vdash$       | Ш                     | H        | I                    | <b> </b>   | 80       | $\sqcup$   | ₽         | $\vdash$   | $\sqcup$          | $\sqcup$        | H                     | $\dashv$      |               | $\mathbf{H}$  | ŀ        | —                  | 130        | ┦                 | +        | <del> </del> | ╀┦            | $\vdash$      | $\dashv$  | +         | $\dashv$  | i   |   |   |
| $\vdash$ |             | 31<br>32                 | $\vdash$  | $\vdash$          | <del>/  </del> | $\dashv$  | -           | _             | $\vdash$       | -                     | H        | -                    | -  | 81<br>82 | ┝┙         | H         | ⊬          | ┦                 | $\vdash$        | $\vdash$              | $\vdash$      |               | $\dashv$      | H        | $\dashv$           | 131<br>132 | ┦                 | +        | +-           | ┦             | $\vdash$      | -+        | +         | ᅱ         | l . |   |   |
| $\vdash$ |             | 33                       | $\vdash$  | $\vdash$          | $\sqcap$       | $\dashv$  | $\dashv$    | $\dashv$      | $\vdash$       | $\vdash$              | H        | 1                    |  | 83       | $\vdash$   | $\vdash$  | $\vdash$   | H                 | $\vdash$        | $\vdash$              | $\dashv$      | -             | $\dashv$      | H        | $\dashv$           | 133        | ╁                 | +        | +            | H             | $\vdash$      | $\dashv$  | +         | $\dashv$  | i   | • |   |
|          | 3           | 34                       |           |                   | 口              | J         |             | J             |                |                       |          | 1                    |  | 84       |            |           |            |                   |                 | 口                     | 口             | J             |               | t        |                    | 134        |                   | 士        | 士            |               | 口             | コ         | 士         | コ         | i   |   |   |
|          | 3           | 35                       |           |                   | $\Box$         | $\Box$    | $\Box$      | $\Box$        | $\Box$         |                       |          | ſ                    |  | 85       |            |           |            |                   |                 | $\Box$                | $\Box$        | $\Box$        |               | Ţ        |                    | 135        |                   |          | 工            | $\Box$        | $\Box$        | $\supset$ | $\Box$    | $\Box$    | i   |   |   |
| $\vdash$ |             | 36                       | $\sqcup$  | $\sqcup$          | $\dashv$       | $\dashv$  | _           | $\dashv$      | Щ              | للم                   | Н        |                      | لنسأ   | 86       | $\sqcup$   | ₩         | ₽          | $\sqcup$          | $\sqcup$        | $\boldsymbol{\sqcup}$ |               | $\dashv$      | $\dashv$      | ŀ        |                    | 136        | Н                 | -        | 4            | $\sqcup$      | $\vdash$      | $\dashv$  | $\dashv$  | 4         | ĺ   |   | 1 |
| $\vdash$ |             | 37<br>38                 | ⊢         | H                 | $\dashv$       | $\dashv$  | $\dashv$    | -             | _              | <b>  </b>             | H        | -                    | igwdap   | 87<br>88 | $\vdash$   | $\vdash$  | ⊣          | $\vdash$          | $\vdash$        | $\vdash$              | _             | ,}            | $\dashv$      | H        | $\dashv$           | 137<br>138 | ₩                 | +        | +-           | ┼┦            | H             | -         | $\dashv$  | $\dashv$  | i   |   |   |
| -        |             | 39                       | H         | $\vdash$          | 一十             | 7         | -           | 7             | $\vdash$       | $\vdash$              | Н        | 1                    | <del>                                     </del> | 89       | $\vdash$   | $\vdash$  | $\vdash$   | $\vdash$          | $\vdash$        | H                     | $\overline{}$ | $\dashv$      | $\dashv$      | ŀ        | $\dashv$           | 139        | ╁                 | ┿        | +            | H             | H             | +         | 十         | 一         | l . | • |   |
|          |             | 40                       |           |                   | 寸              | J         | J           | 寸             |                |                       | $\Box$   | 1                    |  | 90       |            |           | $\Box$     |                   |                 | 一                     |               |               |               | l        |                    | 140        | 口                 | 士        | 1_           | $\Box$        | 口             | 丁         | コ         | コ         | i . |   |   |
|          | 4           | 41                       |           |                   | $\Box$         | $\Box$    | $\Box$      | $\Box$        | $\square$      |                       |          | - [                  |  | 91       |            |           |            |                   |                 | $\Box$                | $\Box$        | $\Box$        |               | [        |                    | 141        |                   | 工        | 工            |               | $\Box$        | $\Box$    | コ         | コ         | i . |   |   |
| $\vdash$ |             | 42                       | Ш         | Ш                 | $\dashv$       | 4         | $\dashv$    | $\dashv$      | Щ              | لـــا                 | П        |                      | ليسا   | 92       | $\square$  | $\square$ | $\sqcup$   | $\sqcup$          | Ш               | Н                     | $\dashv$      | 4             | $\mathbf{H}$  | ŀ        |                    | 142        | $\sqcup$          | <u> </u> | 1            | $\sqcup$      | $\mapsto$     | $\dashv$  | +         | $\dashv$  | 1.  |   |   |
| $\vdash$ | +           | 43<br>44                 | $\vdash$  | $\vdash$          | 廾              | $\dashv$  | $\dashv$    | -+            | H              | $\vdash$              | H        | -                    |  | 93<br>94 | $\vdash$   | ш         | ሥ          | $\vdash$          | $\vdash \vdash$ | $\vdash$              | $\dashv$      | $\dashv$      | $\mathbf{H}$  | ŀ        |                    | 143        | ₩                 | +        | ┼            | ╀┦            | $\vdash$      | $\dashv$  | $\dashv$  | $\dashv$  | i   |   |   |
| -        | +7          | 45                       | $\vdash$  | -                 | _              | 7         | $\dashv$    | 1             | <del>/  </del> | -                     | Н        | }                    |  | 95       | $\vdash$   | H         | $\vdash$   | $\vdash$          | H               | $\vdash$              | -             | -             | $\dashv$      | H        | $\dashv$           | 145        | H                 | 十        | +            | ╁┤            | 一十            | $\dashv$  | 十         | $\dashv$  | i   | • |   |
|          | 14          | 46                       | М         | $\vdash \uparrow$ | 一              | 7         | 十           | 十             | $\sqcap$       | $\sqcap$              | П        | 1                    | $\Box$   | 96       | $\vdash$   | $\vdash$  | H          | H                 | $\sqcap$        | $\sqcap$              | $\dashv$      | 7             | $\exists$     | ŀ        | $\neg$             | 146        | $\vdash \uparrow$ | 十        | ┿            | 1             | $\sqcap$      | 7         | 十         | $\exists$ | i   |   |   |
|          | 4           | 47                       |           |                   | $\Box$         | ┚         | $\sqsupset$ | $\Box$        | $\Box$         |                       |          | ſ                    |  | 97       |            |           |            |                   |                 |                       | J             | J             |               |          |                    | 147        | П                 | 工        | 工            |               |               | コ         | I         | $\Box$    | i   |   |   |
| _        |             | 48                       | $\square$ | $\Box$            | $\dashv$       | $\exists$ | $\exists$   | $\exists$     | $\Box$         |                       | 口        |                      |  | 98       |            |           | $\square$  | П                 | $\Box$          | П                     | $\Box$        | $\Box$        |               | Į.       |                    | 148        |                   | 1        | I_           | $\square$     | $\Box$        | $\exists$ | 4         | $\exists$ | i   |   |   |
| -        |             | 49<br>50                 | $\vdash$  | $\vdash$          | -              |           | _           | _             | Н              | $\vdash$              | Н        | ŀ                    | <b></b> _  | 99       | $\sqcup$   | ₽         | $\vdash$   | Н                 | Н               | $\vdash$              | ⊣             |               | _             | -        |                    | 149        |                   | +        | ╄            | ┦             | $\vdash$      | _         | $\dashv$  | 4         | i   |   |   |
|          |             |                          |           |                   |                |           |             |               |                |                       |          |                      |  |          |            |           |            |                   |                 |                       |               |               |               |          |                    |            |                   |          |              |               |               |           |           |           |     |   |   |

Application/Control No.

**Index of Claims** 

Applicant(s)/Patent under Reexamination